Fw: LST - NOAA Risk Assessment for PCbs

Earl Liverman

to:

Richard Franklin 02/17/2011 12:31 PM

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---- Forwarded by Earl Liverman/R10/USEPA/US on 02/17/2011 12:31 PM ----

From: Bruce Duncan/R10/USEPA/US
To: Earl Liverman/R10/USEPA/US@EPA

Date: 02/17/2011 12:28 PM

Subject: Re: Fw: LST - NOAA Risk Assessment for PCbs

I took a look - this has been an issue with the navy and some reef projects. Here is quick overview of one indicating that 50 ppm of low-risk

for leaching would be OK:

http://www.navsea.navy.mil/teamships/Inactiveships/Artificial\_Reefing/fac
ts

heets/ex-ORISKANY\_Fact\_sheet.pdf

leach rate from paint is pretty low relative to other sources:

Paint (AP). This sample was tested in a significantly different form than what is onboard

a typical vessel. It consisted of paint chips and particulates, rather than an intact painted  $\[$ 

substrate. As a result, the surface area was artificially increased well beyond that found for most

paints onboard in a natural leaching scenario. Consequently, the leach rate study reports a higher,

conservative leach rate than would be expected in a natural setting or if an intact painted

substrate was tested in the laboratory. The as-tested sample of paint chips is a close approximation

for the minimal amount of loose, flaking paint that might become debonded

from the

substrate, although paint flakes are generally removed as part of vessel maintenance and  $\,$ 

preparations. The type of paint tested in the leach rate study is similar to most types of interior

and exterior vessel paints, except for antifouling hull paint, which is not a PCB-containing

material found onboard Navy or commercial vessels. The leaching surface area to mass ratio

for most AP in its native state onboard a typical vessel is expected to be

significantly lower than

that tested in this study. This results in a much larger empirical AP leach rate than that expected

onboard a vessel in a realistic reef environment.

http://www.spawar.navy.mil/sti/publications/pubs/tr/1936/tr1936cond.pdf

The eco risk assessment showed:

a monotonically decreasing release rate that asymptotically approached steady state after about  $2\ \mathrm{yrs}$  of leaching

http://environ.spawar.navy.mil/projects/reefex/Reports/ERA\_FINAL\_JANUARY\_ 20

06.pdf

So, I think they can beef this up with the above citation that actually studied the issue. They may have other citations.

Thanks,

## Bruce

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Bruce Duncan

R10 - Office of Environmental Assessment - Risk Evaluation Unit 1200 - 6th Ave, OEA-095, Seattle, WA 98101 206.553.0218 (f) 3.0119 Ecological Risk Assessment Climate Change Science Lead

From: Earl Liverman/R10/USEPA/US
To: Bruce Duncan/R10/USEPA/US@EPA

Date: 02/16/2011 03:18 PM

Subject: Fw: LST - NOAA Risk Assessment for PCbs

As discussed in my voicemail. What are your thoughts regarding the NOAH attachment found below. I believe its a good start but needs to be more substantive to meet the description of an EE/CA streamlined risk evaluation as described on page 29 and 30 of the following guidance attachment which was taken from the Guidance on Conducting Non-Time Critical Removal Actions Under CERCLA (EPA540-R-93-057). Please call me or Richard (503.326.2917).

[attachment "guidancepart2.pdf" deleted by Bruce Duncan/R10/USEPA/US]

Thank you.

---- Forwarded by Earl Liverman/R10/USEPA/US on 02/16/2011 03:12 PM ----

From: Richard Franklin/R10/USEPA/US To: Earl Liverman/R10/USEPA/US@EPA

Date: 02/16/2011 02:52 PM

Subject: LST - NOAA Risk Assessment for PCbs

[attachment "NOAH Risk LST1166 PCBs.docx" deleted by Bruce Duncan/R10/USEPA/US]

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